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1984 Sales of Natural Gas Liquids and Liquefied Refinery Gases

Statistics Department
October 1985

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Preface

In 1983, the U.S. Department of Energy eliminated its annual survey of the sales of liquefied petroleum gases and ethane because of budgetary constraints. The American Petroleum Institute (API), the Gas Processors Association (GPA), and the National LP-Gas Association (NLPGA) have jointly sponsored a survey to provide the industry with this information. The results of this first survey are herewith presented.

Sales of natural gas liquids and liquefied refinery gases in 1984 equaled 33.8 billion gallons. This volume reflected an increase of 3.2 billion gallons or 10.3 percent over 1983. Detailed data for the year 1983 are not available.

According to the Survey, chemical usage of this product in 1984 was more than 10.9 billion gallons or 32.2 percent of the total volume consumed. Some 9.4 billion gallons or 27.9 percent of the total volume sold was dedicated to motor gasoline blending. Residential and commercial usage took 5.2 billion gallons (15.4 percent) while industrial usage consumed 2.9 billion gallons (8.5 percent). Farm usage accounted for 1.7 billion gallons or 4.9 percent of total consumption while gas utility usage totaled 1.1 billion gallons or 3.3 percent. Internal combustion engine fuel used 1.0 billion gallons or 2.8 percent of total consumption. The other category, which includes synthetic natural gas feedstock and secondary recovery usage, utilized 1.7 billion gallons or 5 percent of the total volume.

The ten states which had the largest volumes of sales are ranked below. Their sales came to 26.3 billion gallons or 77.5 percent of the entire national volume.

Rank	State	Volume (M/gals)	% of Total
1.	Texas	13,005,697	38.4
2.	Louisiana	4,216,894	12.5
3.	Kansas	1,901,106	5.6
4.	Illinois	1,800,763	5.3
5.	Ohio	1,540,539	4.6
6.	California	1,293,101	3.8
7.	Kentucky	756,109	2.2
8.	Oklahoma	690,992	2.0
9.	Iowa	535,936	1.6
10.	Indiana	523,925	1.5
	Total	26,265,062	77.5

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TABLE 1. Sales of Natural Gas Liquids and Liquefied Refinery Gases in the United States, 1984 and 1983 (Thousands of Gallons)

Category	1984	1983 9/
Product Type:		
Ethane 1/	9,071,748	-
Propane 2/	12,866,868	-
Butane 3/	6,700,848	-
Pentanes Plus 4/	5,203,632	-
United States Total	33,843,096	-
Principal Uses:		
Residential & Commercial	5,202,876	-
Internal-Combustion Fuel	951,089	-
Chemical/Industrial:		
Chemical 5/6/	10,904,119	-
Industrial 7/	2,870,104	-
Gas Utility	1,126,286	-
Farm	1,663,387	-
Other 8/	1,691,579	-
Gasoline Blending	9,433,656	-
United States Total	33,843,096	-

1/ Includes ethylene.
2/ Includes propylene.
3/ Includes isobutane and butylene.
4/ Includes isopentane, natural gasoline and plant condensate. Excludes field condensate.
5/ Includes use in synthetic rubber manufacture.
6/ The reported data strongly suggest that this category includes not only ethane, propane, butane and natural gasoline consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
7/ Includes refinery fuel use.
8/ Includes use as synthetic natural gas feedstock and use in secondary recovery projects.
9/ 1983 Data not available.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product type, PAD District and State, 1984 and 1983 (Thousands of Gallons)

District & State	Ethane		Propane		Butane
	1984	1983 1/	1984	1983 1/	1984
PAD Dist. I					
New England					
Connecticut...	W	-	51,282	-	W
Maine.....	-	-	22,935	-	-
Massachusetts.	-	-	65,990	-	W
New Hampshire.	-	-	50,017	-	-
Rhode Island..	-	-	12,962	-	W
Vermont.....	-	-	28,321	-	-
Central Atlantic					
Delaware.....	W	-	49,652	-	W
Maryland/D.C..	-	-	96,840	-	W
New Jersey....	24,122	-	200,121	-	110,662
New York.....	-	-	208,193	-	344
Pennsylvania..	92,602	-	239,876	-	133,177
Lower Atlantic					
Florida.....	24,118	-	345,808	-	21,103
Georgia.....	-	-	263,364	-	W
North Carolina	-	-	297,802	-	1,565
South Carolina	-	-	108,489	-	237
Virginia.....	-	-	157,263	-	1,357
West Virginia.	W	-	15,031	-	W
Total.....	145,152	-	2,213,946	-	278,628
PAD Dist. II					
Illinois.....	516,221	-	777,731	-	488,836
Indiana.....	-	-	357,416	-	82,917
Iowa.....	-	-	528,416	-	2,483
Kansas.....	374,042	-	517,983	-	641,961
Kentucky.....	38,774	-	239,938	-	161,106
Michigan.....	340	-	484,763	-	51,337
Minnesota.....	-	-	333,725	-	41,748
Missouri.....	-	-	340,805	-	16,251
Nebraska.....	-	-	149,236	-	W
North Dakota..	-	-	31,464	-	51,344
Ohio.....	855,759	-	503,212	-	179,317
Oklahoma.....	88,722	-	245,514	-	241,101
South Dakota..	-	-	69,586	-	W
Tennessee.....	-	-	137,847	-	W
Wisconsin.....	-	-	364,777	-	2,300
Total.....	1,873,858	-	5,082,413	-	1,962,576
PAD Dist. III					
Alabama.....	-	-	178,075	-	19,604
Arkansas.....	-	-	168,712	-	4,664
Louisiana.....	1,525,662	-	650,868	-	1,293,380
Mississippi...	-	-	164,577	-	60,136
New Mexico....	87,274	-	112,652	-	47,444
Texas.....	5,360,030	-	3,102,955	-	2,338,854
Total.....	6,972,966	-	4,377,839	-	3,764,082
PAD Dist. IV					
Colorado.....	671	-	101,590	-	8,911
Idaho.....	-	-	31,815	-	-
Montana.....	-	-	48,239	-	82,500
Utah.....	W	-	55,004	-	33,114
Wyoming.....	W	-	65,794	-	67,066
Total.....	900	-	302,442	-	191,591
PAD Dist. V					
Alaska.....	-	-	W	-	-
Arizona.....	-	-	66,727	-	7,163
California....	78,872	-	615,872	-	343,098
Hawaii.....	-	-	W	-	-
Nevada.....	-	-	36,366	-	W
Oregon.....	-	-	60,694	-	W
Washington....	-	-	92,533	-	153,614
Total.....	78,872	-	890,228	-	503,971
U.S. Total.....	9,071,748	-	12,866,868	-	6,700,848

1/ 1983 Data not available.
W Data withheld to avoid disclosure of individual company data.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus		Total		
1983 1/	1984	1983 1/	1984	1983 1/	District & State
					PAD Dist. I
					New England
-	-	-	54,788	-	Connecticut...
-	-	-	22,935	-	Maine.....
-	W	-	68,980	-	Massachusetts.
-	-	-	50,017	-	New Hampshire.
-	-	-	13,118	-	Rhode Island..
-	-	-	28,321	-	Vermont.....
					Central Atlantic
-	W	-	54,763	-	Delaware.....
-	W	-	98,622	-	Maryland/D.C..
-	W	-	340,075	-	New Jersey....
-	W	-	209,442	-	New York.....
-	314,055	-	779,710	-	Pennsylvania..
					Lower Atlantic
-	122,786	-	513,815	-	Florida.....
-	W	-	268,688	-	Georgia.....
-	W	-	299,539	-	North Carolina
-	W	-	109,046	-	South Carolina
-	-	-	158,620	-	Virginia.....
-	W	-	16,521	-	West Virginia.
-	449,274	-	3,087,000	-	Total.....
					PAD Dist. II
-	17,975	-	1,800,763	-	Illinois.....
-	83,592	-	523,925	-	Indiana.....
-	5,037	-	535,936	-	Iowa.....
-	367,120	-	1,901,106	-	Kansas.....
-	17,271	-	457,089	-	Kentucky.....
-	219,669	-	756,109	-	Michigan.....
-	61,099	-	436,572	-	Minnesota.....
-	W	-	358,131	-	Missouri.....
-	1,561	-	150,616	-	Nebraska.....
-	54,632	-	137,440	-	North Dakota..
-	2,251	-	1,540,539	-	Ohio.....
-	115,655	-	690,992	-	Oklahoma.....
-	-	-	69,852	-	South Dakota..
-	424	-	139,861	-	Tennessee.....
-	W	-	367,278	-	Wisconsin.....
-	947,562	-	9,866,409	-	Total.....
					PAD Dist. III
-	5,661	-	203,340	-	Alabama.....
-	1,220	-	174,596	-	Arkansas.....
-	746,984	-	4,216,894	-	Louisiana.....
-	2,320	-	227,033	-	Mississippi...
-	215,871	-	463,241	-	New Mexico....
-	2,203,858	-	13,005,697	-	Texas.....
-	3,175,914	-	18,290,801	-	Total.....
					PAD Dist. IV
-	48,150	-	159,322	-	Colorado.....
-	-	-	31,815	-	Idaho.....
-	66,923	-	197,662	-	Montana.....
-	94,252	-	182,443	-	Utah.....
-	164,013	-	297,029	-	Wyoming.....
-	373,338	-	868,271	-	Total.....
					PAD Dist. V
-	-	-	W	-	Alaska.....
-	689	-	74,579	-	Arizona.....
-	255,259	-	1,293,101	-	California....
-	-	-	W	-	Hawaii.....
-	W	-	36,402	-	Nevada.....
-	-	-	60,773	-	Oregon.....
-	W	-	247,724	-	Washington....
-	257,544	-	1,730,615	-	Total.....
-	5,203,632	-	33,843,096	-	U.S. Total.....

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1984 and 1983 (Thousands of Gallons)

District & State	Residential & Commercial 1984	Residential & Commercial 1983 4/	Internal Combustion Fuel 1984	Internal Combustion Fuel 1983 4/	Chemical 1/ 1984	Chemical 1/ 1983 4/	Industrial 2/ 1984	Industrial 2/ 1983 4/
PAD Dist. I								
New England								
Connecticut...	28,881	-	2,707	-	2,560	-	13,912	-
Maine.....	12,054	-	1,334	-	w	-	6,026	-
Massachusetts.	44,786	-	6,531	-	1,224	-	6,454	-
New Hampshire.	38,869	-	1,616	-	-	-	6,975	-
Rhode Island..	8,482	-	1,969	-	-	-	2,118	-
Vermont.....	26,120	-	1,067	-	-	-	891	-
Central Atlantic								
Delaware.....	27,929	-	427	-	626	-	12,246	-
Maryland/D.C..	54,318	-	5,386	-	w	-	28,837	-
New Jersey....	48,068	-	12,338	-	177,492	-	46,203	-
New York.....	154,395	-	13,343	-	1,048	-	17,615	-
Pennsylvania..	119,013	-	23,120	-	48,196	-	128,006	-
Lower Atlantic								
Florida.....	269,856	-	34,220	-	24,458	-	22,240	-
Georgia.....	187,713	-	20,287	-	3,792	-	17,389	-
North Carolina	164,793	-	13,204	-	513	-	23,652	-
South Carolina	82,116	-	8,837	-	774	-	7,518	-
Virginia.....	90,690	-	8,928	-	w	-	23,448	-
West Virginia.	10,512	-	1,318	-	132	-	3,765	-
Total.....	1,368,595	-	156,632	-	263,712	-	367,295	-
PAD Dist. II								
Illinois.....	258,559	-	73,606	-	305,086	-	355,964	-
Indiana.....	214,628	-	23,004	-	w	-	8,981	-
Iowa.....	230,449	-	15,050	-	w	-	11,171	-
Kansas.....	78,977	-	10,810	-	229,489	-	187,257	-
Kentucky.....	105,427	-	30,675	-	2,136	-	147,194	-
Michigan.....	346,157	-	45,666	-	w	-	40,043	-
Minnesota.....	187,710	-	18,697	-	w	-	21,522	-
Missouri.....	247,827	-	19,335	-	w	-	37,095	-
Nebraska.....	59,917	-	7,557	-	908	-	4,714	-
North Dakota..	10,062	-	2,095	-	-	-	1,780	-
Ohio.....	258,884	-	56,928	-	60,411	-	240,930	-
Oklahoma.....	125,810	-	14,070	-	93,005	-	68,734	-
South Dakota..	47,269	-	2,909	-	-	-	1,196	-
Tennessee.....	90,770	-	25,100	-	601	-	14,229	-
Wisconsin.....	255,595	-	28,507	-	2,076	-	13,823	-
Total.....	2,518,041	-	374,009	-	697,908	-	1,154,633	-
PAD Dist. III								
Alabama.....	131,792	-	17,062	-	1,360	-	7,140	-
Arkansas.....	118,529	-	14,758	-	340	-	5,213	-
Louisiana.....	59,112	-	27,291	-	1,882,911	-	82,053	-
Mississippi...	104,911	-	22,470	-	w	-	68,946	-
New Mexico....	38,784	-	6,387	-	28,058	-	63,741	-
Texas.....	316,487	-	64,219	-	7,866,374	-	813,384	-
Total.....	769,615	-	152,187	-	9,779,411	-	1,040,477	-
PAD Dist. IV								
Colorado.....	71,585	-	7,804	-	3,442	-	12,478	-
Idaho.....	14,232	-	6,439	-	w	-	7,486	-
Montana.....	23,697	-	5,213	-	-	-	9,944	-
Utah.....	35,302	-	8,694	-	w	-	7,493	-
Wyoming.....	28,104	-	4,818	-	20,871	-	20,068	-
Total.....	172,920	-	32,968	-	27,412	-	57,469	-
PAD Dist. V								
Alaska.....	w	-	w	-	-	-	1,256	-
Arizona.....	40,186	-	11,383	-	w	-	9,354	-
California....	241,190	-	150,378	-	131,200	-	211,904	-
Hawaii.....	w	-	w	-	-	-	-	-
Nevada.....	27,849	-	3,760	-	w	-	2,481	-
Oregon.....	24,364	-	25,250	-	-	-	7,502	-
Washington....	26,559	-	42,235	-	w	-	17,733	-
Total.....	373,705	-	235,293	-	135,676	-	250,230	-
U.S. Total.....	5,202,876	-	951,089	-	10,904,119	-	2,870,104	-

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and natural gasoline consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
4/ 1983 Data not available.
W Data withheld to avoid disclosure of individual company data.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other 3/		Total		
1984	1983 4/	1984	1983 4/	1984	1983 4/	1984	1983 4/	District & State
								PAD Dist. I
								New England
3,048	-	726	-	2,954	-	54,788	-	...Connecticut
W	-	27	-	W	-	22,935	-	.....Maine
7,027	-	353	-	2,605	-	68,980	-	.Massachusetts
2,150	-	26	-	W	-	50,017	-	.New Hampshire
-	-	16	-	533	-	13,118	-	..Rhode Island
W	-	49	-	W	-	28,321	-	.....Vermont
								Central Atlantic
W	-	6,555	-	6,962	-	54,763	-	.....Delaware
W	-	5,634	-	2,818	-	98,622	-	.Maryland/D.C.
W	-	2,912	-	6,138	-	294,199	-	....New Jersey
13,964	-	7,863	-	1,073	-	209,301	-	.....New York
5,619	-	18,732	-	2,414	-	345,100	-	..Pennsylvania
								Lower Atlantic
7,596	-	12,593	-	W	-	371,389	-	.....Florida
W	-	36,302	-	3,137	-	268,688	-	.....Georgia
203	-	94,136	-	3,038	-	299,539	-	North Carolina
169	-	9,377	-	255	-	109,046	-	South Carolina
885	-	22,538	-	10,421	-	157,286	-	.....Virginia
W	-	726	-	25	-	16,521	-	.West Virginia
44,226	-	218,565	-	43,588	-	2,462,613	-	.....Total
								PAD Dist. II
30,311	-	286,202	-	5,292	-	1,315,020	-	.....Illinois
8,374	-	99,447	-	3,374	-	358,318	-	.....Indiana
W	-	268,105	-	456	-	530,361	-	.....Iowa
358,694	-	88,422	-	176,747	-	1,130,396	-	.....Kansas
427	-	14,553	-	355	-	300,767	-	.....Kentucky
149	-	48,374	-	4,860	-	485,710	-	.....Michigan
2,797	-	102,344	-	2,008	-	335,283	-	.....Minnesota
7,849	-	23,922	-	5,311	-	342,414	-	.....Missouri
W	-	73,305	-	1,089	-	149,311	-	.....Nebraska
W	-	14,764	-	W	-	32,436	-	..North Dakota
100	-	83,416	-	661,755	-	1,362,424	-	.....Ohio
7,018	-	36,265	-	17,115	-	362,017	-	.....Oklahoma
W	-	17,721	-	W	-	69,852	-	..South Dakota
W	-	6,840	-	2,307	-	139,857	-	.....Tennessee
2,527	-	57,819	-	4,998	-	365,345	-	.....Wisconsin
424,883	-	1,221,499	-	888,538	-	7,279,511	-	.....Total
								PAD Dist. III
W	-	21,542	-	W	-	179,202	-	.....Alabama
-	-	29,903	-	379	-	169,122	-	.....Arkansas
68,774	-	7,151	-	389,399	-	2,516,691	-	.....Louisiana
-	-	20,114	-	1,801	-	218,610	-	...Mississippi
W	-	1,689	-	126,940	-	267,656	-	....New Mexico
507,798	-	62,105	-	209,505	-	9,839,872	-	.....Texas
578,629	-	142,504	-	728,330	-	13,191,153	-	.....Total
								PAD Dist. IV
2,174	-	6,147	-	3,165	-	106,795	-	.....Colorado
W	-	2,962	-	696	-	31,815	-	.....Idaho
W	-	9,100	-	730	-	49,258	-	.....Montana
675	-	2,057	-	5,383	-	62,703	-	.....Utah
11,475	-	2,535	-	4,620	-	92,491	-	.....Wyoming
14,898	-	22,801	-	14,594	-	343,062	-	.....Total
								PAD Dist. V
-	-	W	-	W	-	W	-	.....Alaska
-	-	5,494	-	W	-	67,351	-	.....Arizona
63,650	-	42,134	-	13,688	-	854,144	-	....California
-	-	W	-	-	-	W	-	.....Hawaii
-	-	1,530	-	746	-	36,385	-	.....Nevada
-	-	3,006	-	643	-	60,765	-	.....Oregon
-	-	5,332	-	728	-	96,420	-	....Washington
63,650	-	58,018	-	16,529	-	1,133,101	-	.....Total
1,126,286	-	1,663,387	-	1,691,579	-	24,409,440	-	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1984 and 1983 (Thousands of Gallons)

District & State	Residential & Commercial 1984	Residential & Commercial 1983 4/	Internal Combustion Fuel 1984	Internal Combustion Fuel 1983 4/	Chemical 1/ 1984	Chemical 1/ 1983 4/	Industrial 2/ 1984	Industrial 2/ 1983 4/
PAD Dist. I								
New England								
Connecticut	28,881	-	2,707	-	1,753	-	13,912	-
Maine	12,054	-	1,334	-	W	-	6,026	-
Massachusetts	44,786	-	6,531	-	W	-	6,454	-
New Hampshire	38,869	-	1,616	-	-	-	6,975	-
Rhode Island	8,482	-	1,969	-	-	-	2,118	-
Vermont	26,120	-	1,067	-	-	-	891	-
Central Atlantic								
Delaware	27,929	-	427	-	621	-	12,246	-
Maryland/D.C.	54,318	-	5,386	-	-	-	28,837	-
New Jersey	48,068	-	12,338	-	111,747	-	22,074	-
New York	154,395	-	13,343	-	W	-	17,615	-
Pennsylvania	119,013	-	23,120	-	32,557	-	39,215	-
Lower Atlantic								
Florida	269,668	-	34,220	-	-	-	21,305	-
Georgia	187,713	-	20,287	-	W	-	17,389	-
North Carolina	164,793	-	13,204	-	W	-	23,652	-
South Carolina	82,116	-	8,837	-	W	-	7,518	-
Virginia	90,690	-	8,928	-	W	-	23,448	-
West Virginia	10,512	-	1,318	-	W	-	2,405	-
Total	1,368,407	-	156,632	-	149,520	-	252,080	-
PAD Dist. II								
Illinois	258,559	-	73,606	-	80,229	-	44,795	-
Indiana	214,628	-	23,004	-	-	-	8,981	-
Iowa	230,449	-	15,050	-	-	-	11,171	-
Kansas	78,977	-	10,810	-	W	-	12,294	-
Kentucky	105,427	-	30,673	-	W	-	88,305	-
Michigan	346,157	-	45,666	-	-	-	39,704	-
Minnesota	187,710	-	18,697	-	-	-	21,522	-
Missouri	247,827	-	19,335	-	-	-	37,095	-
Nebraska	59,917	-	7,557	-	W	-	4,714	-
North Dakota	10,062	-	2,095	-	-	-	1,780	-
Ohio	258,884	-	56,928	-	58,210	-	42,005	-
Oklahoma	123,493	-	14,070	-	10,747	-	53,768	-
South Dakota	47,269	-	2,909	-	-	-	930	-
Tennessee	90,770	-	25,100	-	W	-	14,229	-
Wisconsin	255,595	-	28,507	-	W	-	13,823	-
Total	2,515,724	-	374,009	-	182,153	-	395,116	-
PAD Dist. III								
Alabama	131,792	-	17,062	-	W	-	7,140	-
Arkansas	118,529	-	14,758	-	-	-	5,213	-
Louisiana	59,112	-	27,291	-	413,467	-	50,019	-
Mississippi	104,654	-	22,470	-	-	-	15,627	-
New Mexico	38,784	-	6,387	-	W	-	63,085	-
Texas	256,102	-	63,127	-	2,406,173	-	75,130	-
Total	708,973	-	151,095	-	2,820,504	-	216,214	-
PAD Dist. IV								
Colorado	71,213	-	7,804	-	W	-	12,422	-
Idaho	14,232	-	6,439	-	-	-	7,486	-
Montana	23,697	-	5,213	-	-	-	9,499	-
Utah	33,469	-	8,694	-	W	-	6,066	-
Wyoming	24,485	-	4,818	-	522	-	18,161	-
Total	167,096	-	32,968	-	2,175	-	53,634	-
PAD Dist. V								
Alaska	W	-	W	-	-	-	1,256	-
Arizona	40,186	-	11,383	-	-	-	9,354	-
California	220,578	-	150,378	-	66,237	-	121,004	-
Hawaii	W	-	W	-	-	-	-	-
Nevada	27,849	-	3,760	-	-	-	2,481	-
Oregon	24,364	-	25,250	-	-	-	7,431	-
Washington	26,559	-	42,235	-	-	-	17,679	-
Total	353,093	-	235,293	-	66,237	-	159,205	-
U.S. Total	5,113,293	-	949,997	-	3,220,589	-	1,076,249	-

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and natural gasoline consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
4/ 1983 Data not available.
W Data withheld to avoid disclosure of individual company data.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1984	Gas Utility 1983 4/	Farm 1984	Farm 1983 4/	Other 3/ 1984	Other 3/ 1983 4/	Total 1984	Total 1983 4/	District & State
								PAD Dist. I
								New England
3,048	-	726	-	255	-	51,282	-	...Connecticut
W	-	27	-	W	-	22,935	-	.....Maine
7,027	-	353	-	568	-	65,990	-	.Massachusetts
2,150	-	26	-	W	-	50,017	-	.New Hampshire
-	-	16	-	377	-	12,962	-	..Rhode Island
W	-	49	-	W	-	28,321	-	.....Vermont
								Central Atlantic
W	-	6,555	-	1,856	-	49,652	-	.....Delaware
W	-	5,634	-	2,055	-	96,840	-	.Maryland/D.C.
W	-	2,912	-	1,934	-	200,121	-	....New Jersey
13,964	-	7,863	-	870	-	208,193	-	.....New York
5,619	-	18,732	-	1,620	-	239,876	-	..Pennsylvania
								Lower Atlantic
7,596	-	12,593	-	W	-	345,808	-	.....Florida
W	-	36,302	-	1,578	-	263,364	-	.....Georgia
203	-	94,136	-	1,530	-	297,802	-	North Carolina
169	-	9,377	-	235	-	108,489	-	South Carolina
885	-	22,538	-	10,398	-	157,263	-	.....Virginia
W	-	726	-	25	-	15,031	-	.West Virginia
44,226	-	218,565	-	24,516	-	2,213,946	-	.....Total
								PAD Dist. II
30,298	-	286,202	-	4,042	-	777,731	-	.....Illinois
8,374	-	99,447	-	2,982	-	357,416	-	.....Indiana
W	-	268,105	-	456	-	528,416	-	.....Iowa
278,165	-	88,422	-	19,435	-	517,983	-	.....Kansas
427	-	14,553	-	353	-	239,938	-	.....Kentucky
W	-	48,374	-	4,859	-	484,763	-	.....Michigan
2,797	-	102,344	-	655	-	333,725	-	.....Minnesota
7,849	-	23,922	-	4,777	-	340,805	-	.....Missouri
W	-	73,305	-	1,089	-	149,236	-	.....Nebraska
-	-	14,764	-	W	-	31,464	-	..North Dakota
66	-	83,416	-	3,703	-	503,212	-	.....Ohio
6,594	-	36,265	-	577	-	245,514	-	.....Oklahoma
W	-	17,721	-	W	-	69,586	-	..South Dakota
W	-	6,840	-	717	-	137,847	-	.....Tennessee
2,527	-	57,819	-	4,631	-	364,777	-	.....Wisconsin
342,765	-	1,221,499	-	51,147	-	5,082,413	-	.....Total
								PAD Dist. III
W	-	21,542	-	W	-	178,075	-	.....Alabama
-	-	29,839	-	W	-	168,712	-	.....Arkansas
65,043	-	7,151	-	28,785	-	650,868	-	.....Louisiana
-	-	20,051	-	1,775	-	164,577	-	...Mississippi
W	-	1,689	-	800	-	112,652	-	....New Mexico
237,383	-	61,828	-	3,212	-	3,102,955	-	.....Texas
303,702	-	142,100	-	35,251	-	4,377,839	-	.....Total
								PAD Dist. IV
W	-	6,147	-	3,165	-	101,590	-	.....Colorado
-	-	2,962	-	696	-	31,815	-	.....Idaho
-	-	9,100	-	730	-	48,239	-	.....Montana
W	-	2,057	-	2,625	-	55,004	-	.....Utah
11,475	-	2,535	-	3,798	-	65,794	-	.....Wyoming
12,754	-	22,801	-	11,014	-	302,442	-	.....Total
								PAD Dist. V
-	-	W	-	W	-	W	-	.....Alaska
-	-	5,494	-	W	-	66,727	-	.....Arizona
2,565	-	41,939	-	13,271	-	615,872	-	....California
-	-	W	-	-	-	W	-	.....Hawaii
-	-	1,530	-	746	-	36,366	-	.....Nevada
-	-	3,006	-	643	-	60,694	-	.....Oregon
-	-	5,332	-	728	-	92,533	-	....Washington
2,565	-	57,723	-	16,112	-	890,228	-	.....Total
706,012	-	1,662,698	-	138,040	-	12,866,868	-	.....U.S. Total

Table 5. Sales of Butane, by Use, in the United States, by PAD District and State, 1984 and 1983 (Thousands of Gallons)

District & State	Residential & Commercial 1984	Residential & Commercial 1983 4/	Internal Combustion Fuel 1984	Internal Combustion Fuel 1983 4/	Chemical 1/ 1984	Chemical 1/ 1983 4/	Industrial 2/ 1984	Industrial 2/ 1983 4/
PAD Dist. I								
New England								
Connecticut	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-
Central Atlantic								
Delaware	-	-	-	-	-	-	-	-
Maryland/D.C.	-	-	-	-	-	-	-	-
New Jersey	W	-	-	-	36,453	-	W	-
New York	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-
Lower Atlantic								
Florida	W	-	-	-	W	-	W	-
Georgia	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	W	-	-	-
South Carolina	-	-	-	-	W	-	-	-
Virginia	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	W	-
Total	188	-	-	-	37,273	-	26,218	-
PAD Dist. II								
Illinois	W	-	-	-	14,924	-	1,078	-
Indiana	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	W	-	-	-
Kansas	-	-	-	-	-	-	166,149	-
Kentucky	-	-	-	-	-	-	W	-
Michigan	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	W	-	-	-
North Dakota	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	W	-
Oklahoma	W	-	-	-	6,620	-	12,243	-
South Dakota	-	-	-	-	-	-	W	-
Tennessee	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-
Total	2,317	-	-	-	22,680	-	200,957	-
PAD Dist. III								
Alabama	-	-	-	-	-	-	-	-
Arkansas	-	-	W	-	W	-	-	-
Louisiana	-	-	-	-	152,262	-	4,530	-
Mississippi	257	-	-	-	W	-	53,319	-
New Mexico	-	-	-	-	-	-	-	-
Texas	60,385	-	W	-	298,665	-	450,990	-
Total	60,642	-	1,092	-	451,049	-	508,839	-
PAD Dist. IV								
Colorado	W	-	-	-	W	-	W	-
Idaho	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	W	-
Utah	W	-	-	-	W	-	1,354	-
Wyoming	W	-	-	-	3,346	-	1,759	-
Total	5,824	-	-	-	5,368	-	3,559	-
PAD Dist. V								
Alaska	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-
California	20,612	-	-	-	29,550	-	71,998	-
Hawaii	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	W	-	W	-
Washington	-	-	-	-	W	-	W	-
Total	20,612	-	-	-	33,383	-	72,123	-
U.S. Total	89,583	-	1,092	-	549,753	-	811,696	-

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and natural gasoline consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
4/ 1983 Data not available.
W Data withheld to avoid disclosure of individual company data.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1984	Gas Utility 1983 4/	Farm 1984	Farm 1983 4/	Other 3/ 1984	Other 3/ 1983 4/	Total 1984	Total 1983 4/	District & State
								PAD Dist. I
								New England
-	-	-	-	W	-	W	-	...Connecticut
-	-	-	-	-	-	-	-	.....Maine
-	-	-	-	W	-	W	-	.Massachusetts
-	-	-	-	-	-	-	-	.New Hampshire
-	-	-	-	W	-	W	-	..Rhode Island
-	-	-	-	-	-	-	-	.....Vermont
								Central Atlantic
-	-	-	-	W	-	W	-	.....Delaware
-	-	-	-	W	-	W	-	.Maryland/D.C.
-	-	-	-	4,204	-	64,786	-	....New Jersey
-	-	-	-	W	-	W	-	.....New York
-	-	-	-	W	-	W	-	..Pennsylvania
								Lower Atlantic
-	-	-	-	-	-	1,463	-	.....Florida
-	-	-	-	W	-	W	-	.....Georgia
-	-	-	-	W	-	1,565	-	North Carolina
-	-	-	-	W	-	W	-	South Carolina
-	-	-	-	W	-	W	-	.....Virginia
-	-	-	-	-	-	W	-	.West Virginia
-	-	-	-	15,575	-	79,254	-	.....Total
								PAD Dist. II
W	-	-	-	W	-	17,265	-	.....Illinois
-	-	-	-	W	-	W	-	.....Indiana
-	-	-	-	-	-	W	-	.....Iowa
W	-	-	-	6,586	-	238,251	-	.....Kansas
-	-	-	-	W	-	21,024	-	.....Kentucky
W	-	-	-	-	-	W	-	.....Michigan
-	-	-	-	W	-	W	-	.....Minnesota
-	-	-	-	W	-	W	-	.....Missouri
-	-	-	-	-	-	W	-	.....Nebraska
W	-	-	-	-	-	W	-	..North Dakota
W	-	-	-	W	-	1,252	-	.....Ohio
W	-	-	-	W	-	21,636	-	.....Oklahoma
-	-	-	-	-	-	W	-	..South Dakota
-	-	-	-	W	-	W	-	.....Tennessee
-	-	-	-	W	-	W	-	.....Wisconsin
67,105	-	-	-	13,125	-	306,184	-	.....Total
								PAD Dist. III
-	-	-	-	-	-	-	-	.....Alabama
-	-	W	-	W	-	192	-	.....Arkansas
W	-	-	-	W	-	331,654	-	.....Louisiana
-	-	W	-	W	-	53,665	-	...Mississippi
-	-	-	-	W	-	40,478	-	....New Mexico
W	-	277	-	7,792	-	963,379	-	.....Texas
144,587	-	404	-	222,755	-	1,389,368	-	.....Total
								PAD Dist. IV
W	-	-	-	-	-	2,115	-	.....Colorado
-	-	-	-	-	-	-	-	.....Idaho
W	-	-	-	-	-	1,019	-	.....Montana
-	-	-	-	W	-	7,626	-	.....Utah
-	-	-	-	W	-	9,546	-	.....Wyoming
1,975	-	-	-	3,580	-	20,306	-	.....Total
								PAD Dist. V
-	-	-	-	-	-	-	-	.....Alaska
-	-	-	-	-	-	-	-	.....Arizona
W	-	295	-	W	-	123,987	-	....California
-	-	-	-	-	-	-	-	.....Hawaii
-	-	-	-	-	-	-	-	.....Nevada
-	-	-	-	-	-	W	-	.....Oregon
-	-	-	-	-	-	W	-	....Washington
W	-	295	-	W	-	127,945	-	.....Total
215,132	-	699	-	255,102	-	1,923,057	-	.....U.S. Total

Table 6. Sales of Natural Gas Liquids and Liquefied Refinery Gases for Gasoline Blending by Product Type, PAD District and State, 1984 and 1983 (Thousands of Gallons)

District & State	Butane		Pentanes Plus		Total	
	1984	1983 1/	1984	1983 1/	1984	1983 1/
PAD Dist. I						
New England						
Connecticut	-	-	-	-	-	-
Maine	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Central Atlantic						
Delaware	-	-	-	-	-	-
Maryland/D.C.	-	-	-	-	-	-
New Jersey	45,876	-	-	-	45,876	-
New York	W	-	-	-	W	-
Pennsylvania	132,383	-	W	-	434,610	-
Lower Atlantic						
Florida	19,640	-	122,786	-	142,426	-
Georgia	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
Virginia	W	-	W	-	W	-
West Virginia	-	-	-	-	-	-
Total	199,374	-	425,013	-	624,387	-
PAD Dist. II						
Illinois	471,571	-	14,172	-	485,743	-
Indiana	82,525	-	83,082	-	165,607	-
Iowa	W	-	W	-	5,575	-
Kansas	403,710	-	367,000	-	770,710	-
Kentucky	140,082	-	16,240	-	156,322	-
Michigan	51,191	-	219,208	-	270,399	-
Minnesota	40,395	-	W	-	W	-
Missouri	15,717	-	-	-	15,717	-
Nebraska	-	-	1,505	-	1,505	-
North Dakota	50,372	-	54,632	-	105,004	-
Ohio	178,065	-	W	-	W	-
Oklahoma	219,465	-	109,510	-	328,975	-
South Dakota	-	-	-	-	-	-
Tennessee	-	-	W	-	W	-
Wisconsin	W	-	-	-	W	-
Total	1,656,392	-	930,506	-	2,586,898	-
PAD Dist. III						
Alabama	19,604	-	4,534	-	24,138	-
Arkansas	4,472	-	1,002	-	5,474	-
Louisiana	961,726	-	738,477	-	1,700,203	-
Mississippi	6,471	-	1,952	-	8,423	-
New Mexico	6,966	-	188,619	-	195,585	-
Texas	1,375,475	-	1,790,350	-	3,165,825	-
Total	2,374,714	-	2,724,934	-	5,099,648	-
PAD Dist. IV						
Colorado	6,796	-	45,731	-	52,527	-
Idaho	-	-	-	-	-	-
Montana	81,481	-	66,923	-	148,404	-
Utah	25,488	-	94,252	-	119,740	-
Wyoming	57,520	-	147,018	-	204,538	-
Total	171,285	-	353,924	-	525,209	-
PAD Dist. V						
Alaska	-	-	-	-	-	-
Arizona	7,163	-	W	-	W	-
California	219,111	-	219,846	-	438,957	-
Hawaii	-	-	-	-	-	-
Nevada	W	-	-	-	W	-
Oregon	W	-	-	-	W	-
Washington	149,727	-	W	-	W	-
Total	376,026	-	221,488	-	597,514	-
U.S. Total	4,777,791	-	4,655,865	-	9,433,656	-

1/ 1983 Data not available.
W Data withheld to avoid disclosure of individual company data.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

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